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IEWS

FINAL SOFTWARE REPORT

DATA ITEM NO. A005

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# INTEGRATED ELECTRONIC WARFARE SYSTEM ADVANCED DEVELOPMENT MODEL (ADM)

PREPARED FOR:

NAVAL AIR DEVELOPMENT CENTER  
WARMINSTER, PENNSYLVANIA

CONTRACT N62269-75-C-0070

RAYTHEON

ELECTROMAGNETIC  
SYSTEMS DIVISION

1 OCTOBER 1977

UNCLASSIFIED

**FINAL SOFTWARE REPORT**

**DATA ITEM A005**

**INTEGRATED ELECTRONIC WARFARE SYSTEM (IEWS)  
ADVANCED DEVELOPMENT MODEL (ADM)**

**Contract No. N62269-75-C-0070**

**Prepared for:**

**Naval Air Development Center  
Warminster, Pennsylvania**

**Prepared by:**

**RAYTHEON COMPANY  
Electromagnetic Systems Division  
6380 Hollister Avenue  
Goleta, California 93017**

**1 OCTOBER 1977**

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**\*All Appendices are under separate cover.**

## **IEWS FINAL SOFTWARE REPORT**

**The IEWS software documentation is listed in Table 1.**

**Copies of the referenced documents are contained under separate cover in Appendices, 1 through 35, corresponding to items 1 through 35 in Table 1.**

**The paper tape (PT) and floppy disc (FD) code were delivered with the IEWS equipment (Contract Item 0001). The magnetic tape code is currently on file at Raytheon Electromagnetic Systems Division.**

TABLE 1. IEWS (ADM) SOFTWARE DOCUMENTATION

<u>Description</u>	<u>Document No.</u>	<u>Source Code</u>	<u>Object Code*</u>	<u>Latest Listing Date</u>
1. Functional Requirement Spec (FRS)	53959-JK-0700	N/A	N/A	N/A
2. Computer Program Perf. Spec (CPPS) 061290529		N/A	N/A	N/A
3. Computer Program Operators Manual (CPOM)	53959-DB-0762	N/A	N/A	N/A
4. Computer Program Design Spec (CPDS)	53959-GT-0750	N/A	N/A	N/A
5. Common Data Base Spec	53959-GT-0751	N/A	N/A	N/A
6. System Controller Exec. Design Spec	53959-GT-0756			
Resource Mgmt. (RM) Exec		MT:332, File 4	FD: TLC 3 File 5 & 6	7/22/77 (patches)
Classification Processor (CP) Exec.		MT:332, File 3	PT: Romex '33 FD: CPEX BB	7/22/77
Auxiliary Processor (AP) Exec.		MT:332, File 0	PT: ECF G. BB FD: TLC 3 File 5&6	7/22/77
7. System Mgmt 2	5395-GT-0757	MT:332, File 4	PT: Romex '33 FD: TLC 3, File 5&6	7/22/77
8. RMP Display & Control Module	53959-GT-0753	MT:356, File 16	PT: DCDR, BB; FD: TLC 3, File 5&6	5/27/77 (patches)
9. RMP Resource Mgmt Module	53959-GT-0752	MT:356, File 16	PT: RMEXTS. BB FD: TLC 3, File 5 & 6	5/25/77 (patches)
10. Sorter Message Processing	53959-GT-0755	MT 332, File 7	PT: ARFG. BB FD: TLC 3, File 5&6	7/22/77 (patches)
11. Analysis Return, CP Processor	53959-GT-0761	MT 332, File 7	PT: ARFG. BB FD: TLC3 File 5&6	7/22/77 (patches)
12. Aux. Bus Interface (ABI) Mgmt.	53959-GT-0754	MT 332, File 7	PT: ARFG. BB FD: TLC 3, File 5&6	7/22/77 (patches)
13. Emitter Classification Processing	53959-GT-0760	MT 332, File 7	PT: ECFG. BB FD: TLC 3, File 5&6	7/22/77

14. Emitter Library Generation	53959-GT-0770	N/A	N/A
15. Signal Classification Requirements	DCC#760844	N/A	N/A
16. SC Data Extraction	53959-GT-0759	MT332, File 5	PT: DE.BB FD: TLC 3, File 5 & 6
17. IEWS Data Transfer (XFER)	53959-TC-0763	MT332, File 5	PT: XFER. BB
18. Techniques Gen S/W Des. Spec Rev 0 (8/5/76), Rev. A (12/2/76), and Rev. B (12/20/76)	53959-HM-0412	MT949, Source Tape 3	FD: No. 1, Files 7 & 8 & 9
19. RP-16 Linking Loader	53959-TC-0773	MT 320, File 2	PT
20. RP-16 Relocatable Object Text	53959-TC-0774	MT 320, File 2	PT
21. Data Recording with STE	53959-DB-0771	FD: File: 1191 Ø DE1.RS XXX Ø DECOM 1194 Ø DE2.RS 1002 Ø COMMON. RS	File: Ø DE1. BR 1 DECOM. BR 2 DE2. BR 3 COMMON. BR 3 SYSTEST. BR none FD:XXX File: 2
22. Data Reduction with STE	53959-RB-0775	none	
23. Signal Sorter Computer Program Perf Spec (SS CPPS)	CG-983645-1	MT: 285, File 12	FD: TLC 3, File 2 (with patches) PT: Supv. BB Part I (2/16/77) Supv. BB Part II (2/16/77) Supv. BR (2/14/77) MT: 285, File 1
24. Signal Sorter Flow Charts	CG-983645-2		
25. Signal Sorter Common Data Base	53959-TC-0765		
26. Signal Sorter (SS) Supervisor Design Spec & Flow Diagrams	CG-983645-3		
27. SS New Emitter Start Unit (NESU) & Flow Charts	CG-983645-4	MT: 285, File 13	FD: TLC 3, File 2 (with patches) PT: NESU. BB (2/16/77) NESU. BR (2/14/77) MT: 285, File 2



28. SS BIT Software Spec (including flowcharts and listing)	53959-GT-0772	(See ref. document)	
29. SC Program Test Plan	53959-GR-0758		
30. System Controller -Sorter Interface	53959-JK-1002		
31. Auxiliary Bus Interface	53959-JK-1003		
32. IFMR - TG Interface	53959-DB-1101		
33. IFMR - TG Interface	53959-DB-1102		
34. IFMR - SC Interface	53959-DB-1103		
35. Test Procedure for System Controller	53959-GR-0301		
36. IEWS Loader	None	MT 356, File 21	PT: SCLT 1. BQ FD: N/A 7/23/77 SCLT 1A. BB None 4/13/77 SC Loader 1A TLC 3, File 0 3/17/77 SC Loader 2 TLC 3, File 0 3/17/77 SC Loader 3 TLC 4, File 2 4/11/77 SCLT 3. BB TLC 3, File 1 4/15/77 SC Loader 4 TLC 3, File 4 3/17/77
37. SC Simulator for SS Tests (IEWS SIM)	None	MT: 285, File 7	PT: IEWS SIM. BB (3/1/77) 9/1/76 FD: TLC 3, File 3 MT: 285, File 3 (Rama Rel-catable)
38. RP160S for CP (Supports IEWS SIM)	None	None	PT: RP160S (11/1/76) RP160S (SC) (3/4/77) FD: TLC 3, File 3
39. Special Test Equipment (STE) Operating System	None	MT 332, File 8	PT: RP 160S. BQ; FD: OS 4/26/66

\*MT: Magnetic Tape  
FD: Floppy Disc  
PT: Paper Tape